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EcoBuddy10

User's Manual

E10V2

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User's Manual

Windows® XP Edition

You are reading the User's Manual provides information regarding the various componets in the notebook PC and how to use them. After you read through this manual, please keep it well for you can refer it anytime in the future.

Please read the safety precautions mentioned on Page 3 before you operate the notebook.

How to Use This Manual..... 1
Safety Precautions..... 3

■Set Up Your Notebook
Where to Place Your Notebook.....7
Power System.....9
Turning Your Notebook On/Off.....10
Switching User Account.....11

■Before Operating Your Notebook
Introducing Your Notebook.....12
Connecting AC Adapter and Charging Battery.....18
Using Touchpad.....22
Using Keyboard.....23
Adjusting Volume.....27
Adjusting LCD Resolution.....28
Using Wireless LAN.....29
Using Web Camera.....33

■Peripherals
Using Peripherals.....34
Before Installing Peripherals.....36
Connecting AV Equipments.....38
Using USB Compatible Peripherals.....39
Using Memory Cards.....40
Installing Memory Module.....42
Installing Other Modules.....45
Connecting External Display.....47

How to Use This Manual

About the Symbols

You will come across the following symbols in this manual.

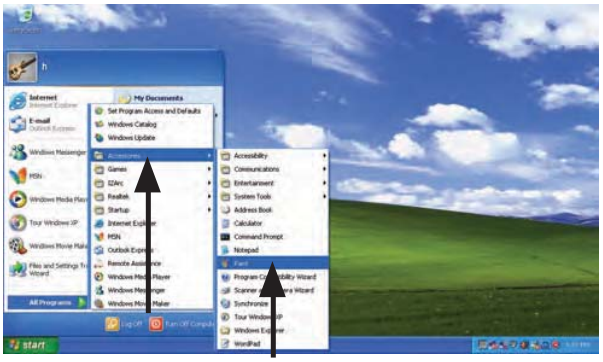
Warning	Points out possible damage to property, personal injury or death
Attention	To help you note and avoid possible damage to your notebook's hardware or software, or loss of your work
Tip	Helpful points and tricks for operating your notebook
Notice	Important notice for non-operational actions or the points you must know for your operation
☞ Page X	The detail information is mentioned in the specific page

Notice

- There may be differences between your notebook and the pictures shown in this manual. Please accept your notebook as being correct.
- Information in this manual is subject to change without notice.

Rule of Presenting Operation Behavior in This Manual

■The Operation of Menu Selecting



"Using the symbol "→", it abbreviates the operation of keeping selecting the menu one after another.
For example, as like the upper picture, [Paint] is selected from the start button.
[Start] → [All Programs] → [Accessories] → [Paint]

■The Operation of Pushing the Plural Keys Simultaneously

※depending upon the different product model, the keyboard layout may be different

While pushing the plural keys simultaneously, we use the symbol " + ", to represent pushing and holding one key first, then pushing the other key.
For example, as showed in the upper figure, while pushing the Shift key, holding the Shift key and pushing the Delete key. It showed as the figure below:

Shift + Delete

■Corresponding Chart of Key Inscription and Keyboard

The descriptions of each key on the keyboard are showed as follows.

in this Manual	Actual key
Esc	
Tab	
Ctrl	
Shift	
Alt	
Space	

in this Manual	Actual key
Enter	
BackSpace	
Insert	
Delete	
Home	

in this Manual	Actual key
End	
PageUp	
PageDown	
F1 F2 …	

in this Manual	Actual key

Rule of Presenting Windows XP Operation in This Manual

■Using Category View to Illustrate the Operation

Two methods are used to represent the window in Windows XP. They are "Classic View" and "Category View" We use "Category View" to illustrate the operation under Windows XP.

■Abbreviation for Windows XP or Windows

In this manual, Windows XP or Windows is abbreviated from Microsoft Windows XP Home Edition.

Safety Precautions

The following safety precautions will increase the life of the notebook. Follow all precautions and instructions. Except as described in this manual, refer all servicing to qualified personnel. Do not use damaged power cords, accessories, or other peripherals. Do not use strong solvents such as thinners, benzene, or other chemicals on or near the surface of your notebook.

⃠ The sign shows the behavior prohibited

● The sign shows the regulative behavior or the indication

⚠ Warning (The device and AC adapter)

●DO NOT expose to or use near liquips, rain, or moisture. DO NOT use the LAN during the electrical storm.

●DO NOT use the AC adapter not included in the package. Use of another type of adapter may risk fire or explosion.

●Before you connect the notebook to a power source, ensure the voltage rating of the AC adapter matches the available power source.

●DO NOT attempt to service this product by yourself. As opening or removing covers, you will be exposed to the dangerous voltage or other risks.

● When you fell the surface of the AC adapter is very hot or bad odor give off from it. Please pull out the power plug immediately. Continue to use the AC adapter may risk fire or electrical shock.

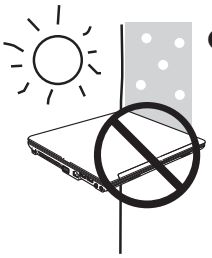
●DO NOT leave the notebook on your lap or any part of the body to prevent discomfort or injury from heat exposure.

⚠ Attention (The device and AC adapter)

● Please be sure not to pull out the power plug from the cord only. You have to pull out the power plug from the plug part.

●Unplug this notebook from the wall outlet when you stop using this notebook.

●DO NOT place this notebook on an unstable cart, stand, or table. DO NOT place heavy object on this notebook. It may be broken to cause some serious damage.



●SAFE TEMP: This notebook should only be used in environments with ambient temperatures between 10°C and 35°C.

●Please verify whether there is no foreign object such as ball-point pen on the keyboard when you close the notebook lid. When while the foreign object is put, there is possible to break display panel.

●DO NOT press or touch the display panel. DO NOT place together with small items that may scratch or enter the notebook.

●If you operate the touchpad with unreasonable force or posture, it may hurt you finger or wrist.

●When you carry the notebook, please close the display lid. It is possibe to break the dispplay panel by the unexpected force.

●Avoid using the notebook during an electrical storm. Disconnect all plugs and cables to avoid the possible damage.

●If an extension cord is used with this notebook, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating.

●DO NOT allow anything to rest on the power cord. DO NOT locate this notebook where people will step on the cord.

⚠ Warning (Battery Pack)

- Danger of explosion may occur if battery is incorrectly replaced. Replace only with the same or equivalent type battery recommended by the manufacturer.

- DO NOT dispose batteries in a fire. They may explode. Check with local authorities for disposal instructions.

- DO NOT impact the battery.

- If the battery pack leaks and the fluid get in your eyes, do not rub them. Instead, rinse your eyes with clean running water and immediately seek medical attention. Otherwise, eye injury may be resulted.

- If it exceed the specified charge time and the charge doesn't complete, please stop the battery charge. It may risk fire or explosion if you continue to charge the battery.

- If the battery pack leaks, gives off a bad odor, generates heat, becomes discolored or deformed, or in any way appears abnormal during use, recharging or storage, immediately remove it from the notebook and stop using it.

- Do not crush, disassemble, puncture, or incinerate the short external contacts of the battery pack.

Attention (Battery Pack)

●If liquid solution from the battery comes out and contacts with skin or clothes, flush out with clean water.

●Do not connect the positive (+) and negative (-) terminals with a metal object such as wire. Short-circuiting may occur leading the battery pack to leak acid, overheat, emit smoke, burst and/or ignite. DO NOT throw the battery in fire.

●Do NOT immerse the battery pack in water or allow it to get wet. Its protective features can be damaged. Abnormal chemical reactions may occur, possibly leading it to leak acid, overheat, emit smoke, burst and /or ignite.

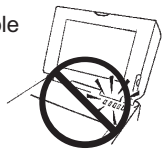
●Keep the battery away from children.

● If you find a bad odor, overheating, battery balloon or swell up, discolor, deformation, and/or other irregularities when using the battery, return it to your supplier or vendor.

General Warnings

DO NOT
knock or scratch
the machine

●LCD monitors are obviously more vulnerable to damage than the classic CRT. Even the slightest contact with a sharp object can leave your liquid crystal display damaged.



DO NOT
moving the machine
while operating

●DO NOT remove your notebook while the hard disk is in operating status. It may be broken to cause some serious damage.

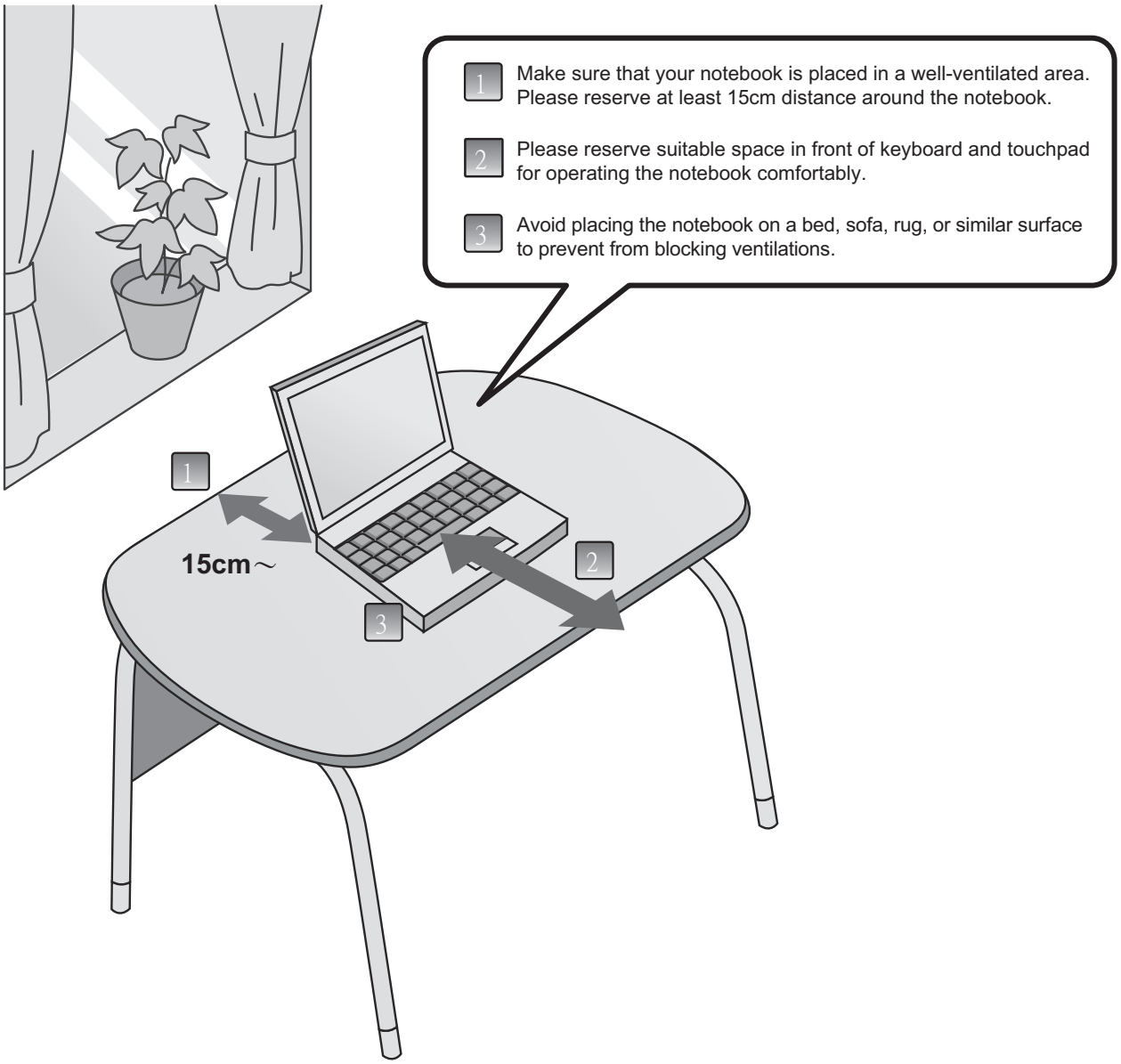
●Please keep all accessories well.

●Periodically backup your data in the hard disk.

●Clean your computer with a soft cloth dampened with water. Do not use liquid or aerosol cleaners, which may contain flammable substances.

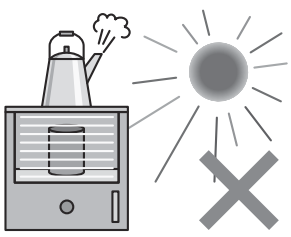
- LCD Panel and battery are consumable parts.
- The LCD has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- You may find slightly uneven brightness on the screen depending on Windows desktop pattern you use.

Where to Place Your Notebook

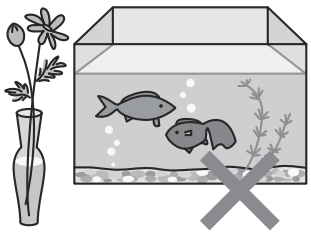

1 Make sure that your notebook is placed in a well-ventilated area. Please reserve at least 15cm distance around the notebook.
2 Please reserve suitable space in front of keyboard and touchpad for operating the notebook comfortably.
3 Avoid placing the notebook on a bed, sofa, rug, or similar surface to prevent from blocking ventilations.
1
15cm～
2
3

Where Not to Place Your Notebook

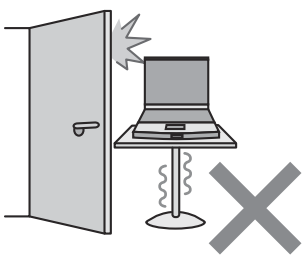
This notebook should never be placed near or over a radiator or a heat register, or under direct sunlight.



DO NOT operate this notebook near water, for example near a sink, bathtub or laundry tub.

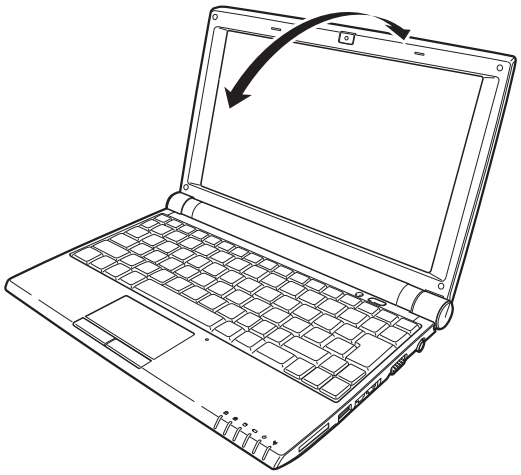


DO NOT place this notebook on uneven or unstable work surfaces.



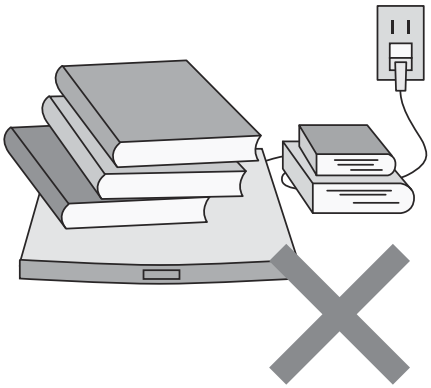
Adjusting the Angle of The Display Panel

You can adjust the display to a easy to see angle.



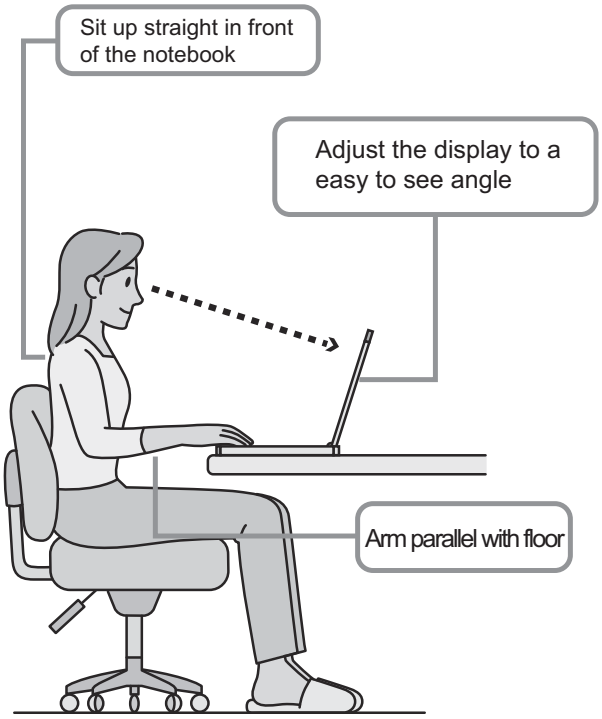
Management

DO NOT rest anything on the notebook or power cable. DO NOT block or cover the opening provided for the ventilation on the notebook.



Correct Posture for Operating Your Notebook

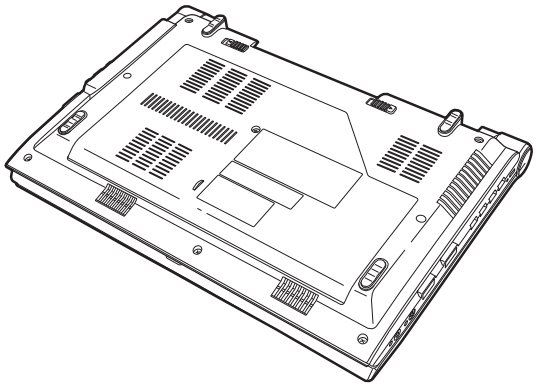
Please sit down before the notebook with correct posture.



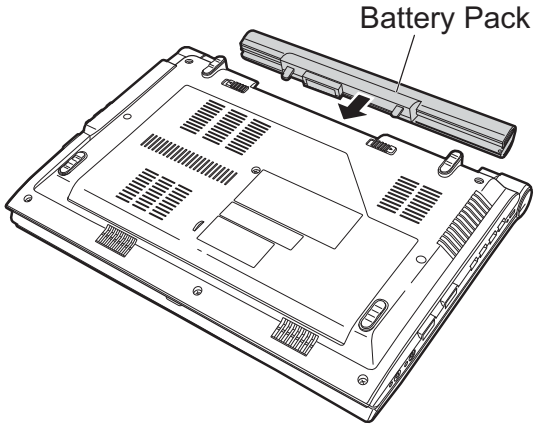
Power System

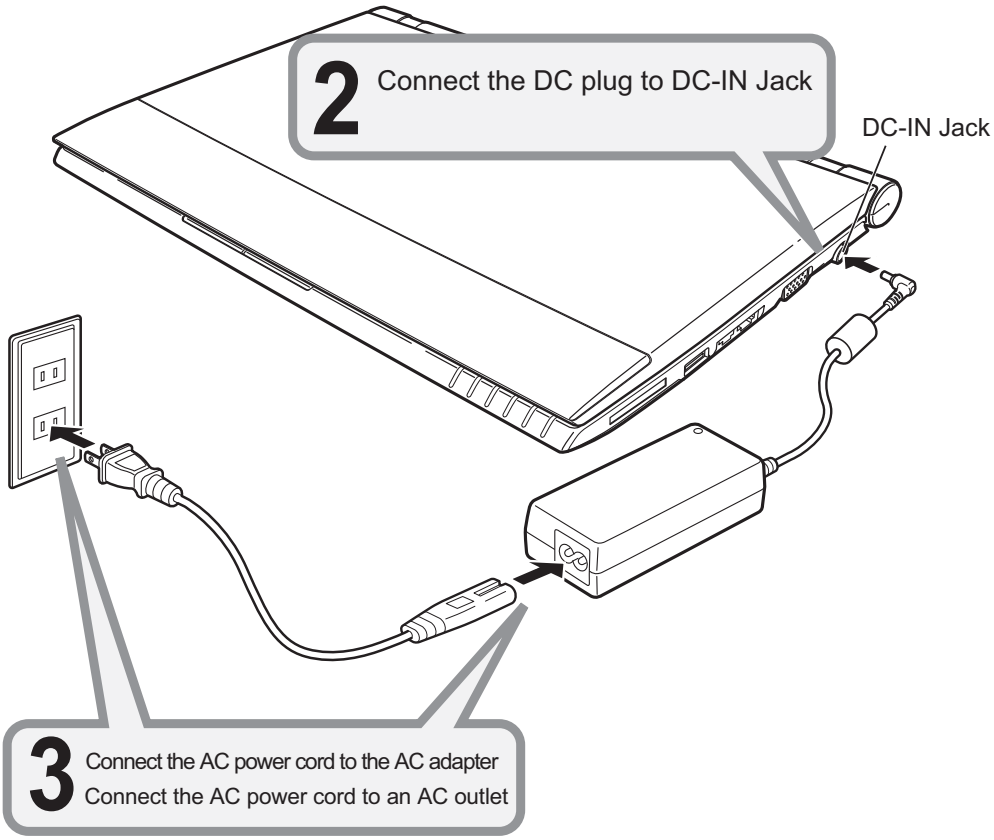
1 To install the battery pack

1 Close the notebook lid and turn over it gently.



2 Slide the battery pack into the slot.



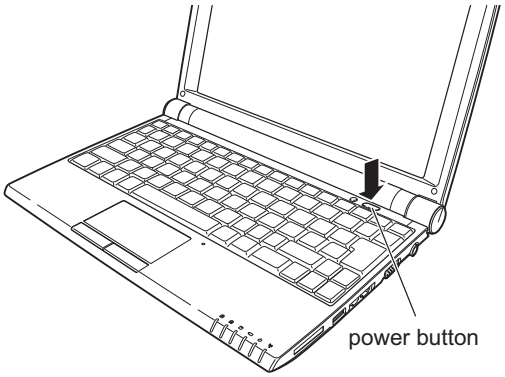

2 Connect the DC plug to DC-IN Jack
DC-IN Jack
3 Connect the AC power cord to the AC adapter
Connect the AC power cord to an AC outlet

Turning Your Notebook On/Off

Turning Your Notebook On

After set up the notebook, press the power button to turn on it. Windows XP desktop screen will appear.

1 Press the power button to turn on your notebook



Windows XP desktop screen will appear after the power button is pressed.

※Depending on your notebook setup and software, your desktop may have different or additional shortcuts.

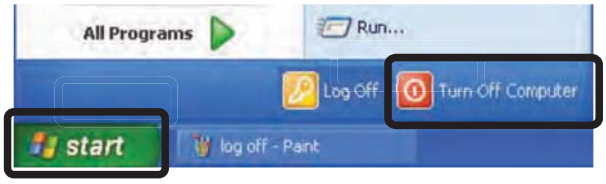
Tip

- When you see two or more user account icons are showed on Welcome Screen, please select the account you want to log in.

Turning Your Notebook Off

Operates from the “start” menu to power off your notebook

1 Click [Start] → [Turn Off Computer], and the “Turn off computer” dialog box will appear.



Attention

DO NOT turn off the notebook by pressing the power button directly. It may damage Windows XP operating system sometimes and you have to install Windows XP again. Please follow the correct procedure to turn off the notebook.

2 Click [Turn Off].

The notebook will be powered off later.

3 Turn off the power of peripherals connected if necessary.

Restart

We suggest you to do Windows restart when new device driver installed or Windows is running unstably. Click [Start] → [Turn off computer] → [Restart].

Tip

- If mouse cursor freeze or the operation is unable to continue during the process of application software, please simultanely press Ctrl + Alt + Delete. It may terminate the specific application running.

Switching User Account

Switch to Another User Accout

Close current user account and start another account's operation.

1 Click [Start] → [Log Off], the "Log Off Windows" dialog box will appear.

2 Click [Log Off], when you want to close current user account.

3 To log on, select user account icon on the Welcome Screen.

Tip

- If the password was assigned for the account, please type the password.
- The password is case sensitive. For example, the same letter in upper case and the same letter in lower case will be considered to be two different letters.

The Windows XP desktop screen will appear later.

※ Depending on your notebook setup and software, your desktop may have different or additional shortcuts

Change Users without Log Off

While the present user account uses the notebook, also another user starts the use of the notebook simultaneously.

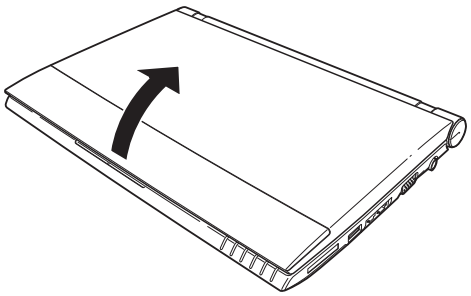
1 Click [Start] → [Log Off], the "Log Off Windows" dialog box will appear.

2 Click [Switch User], the Welcome Screen with multiple user account icons will appear.

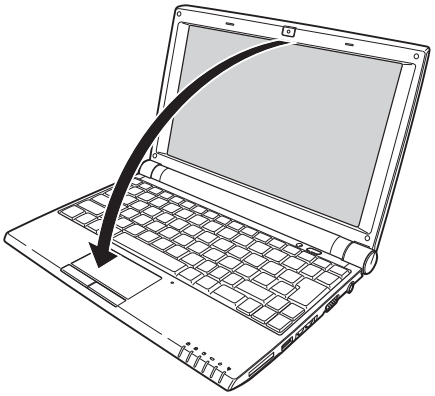
3 Click another user account icon, Windows displays the new user's desktop and settings.

Introducing Your Notebook

Open/Close the Notebook

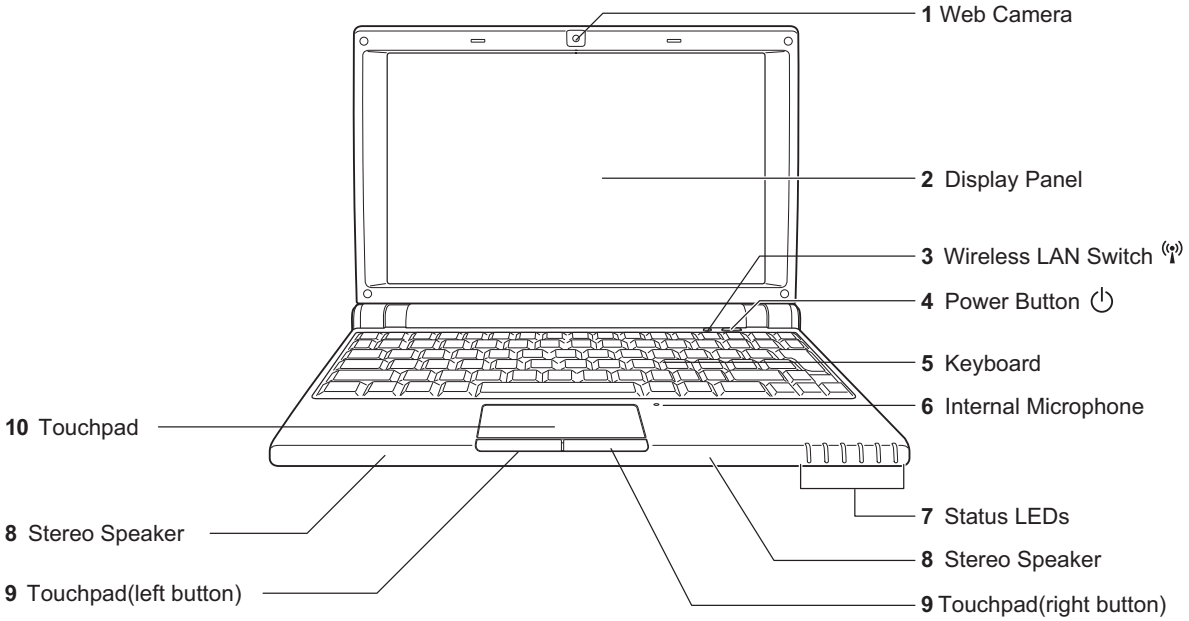


Open the panel cover and adjust it to a easy to see angle.



Close the panel cover and make sure the notebook is closed well.

Front Side



1 Web Camera

The built-in camera allows picture taking or video recording
(☞Page 32)

2 Display Panel

It functions as the same as a desktop monitor. The LCD panel does not produce any radiation or flickering so it is easier on the eyes. Use a soft cloth without any chemical liquids to clean the display panel.

3 Wireless LAN Switch ( )

Press the button to enable the built-in Wireless LAN.(☞Page 29)

4 Power Button ( )

The button allows powering ON and OFF the notebook.
(☞Page 10)

The blue indicator LED lights when the notebook turned on.

Click [Start] → [Control Panel] → [Performance and Maintenance] → [Power Options] for the advanced power option setting.

Attention

- When HDD LED light up, please do not directly push the power button to turn off the notebook. It is possibe to damage the data or notebook.
- After turn OFF the notebook, please wait 5 more seconds for the second time power on.

5 Keyboard

The keyboard provides with comfortable travel (depth at which the keys can be depressed) and palm rest for both hands.(☞Page 23~26)

6 Internal Microphone

It can be used for video conferencing, voice narration , audio recording, and multimedia applications.

7 Status LEDs

Indicate the system status of the notebook.
(☞Page 17)

8 Stereo Speaker

The built-in speaker allows you to hear audio without any additional attachment.

Tip

For Speaker volume down and up, you can use the Fn key to increase/decrease the volume.(☞Page 24)

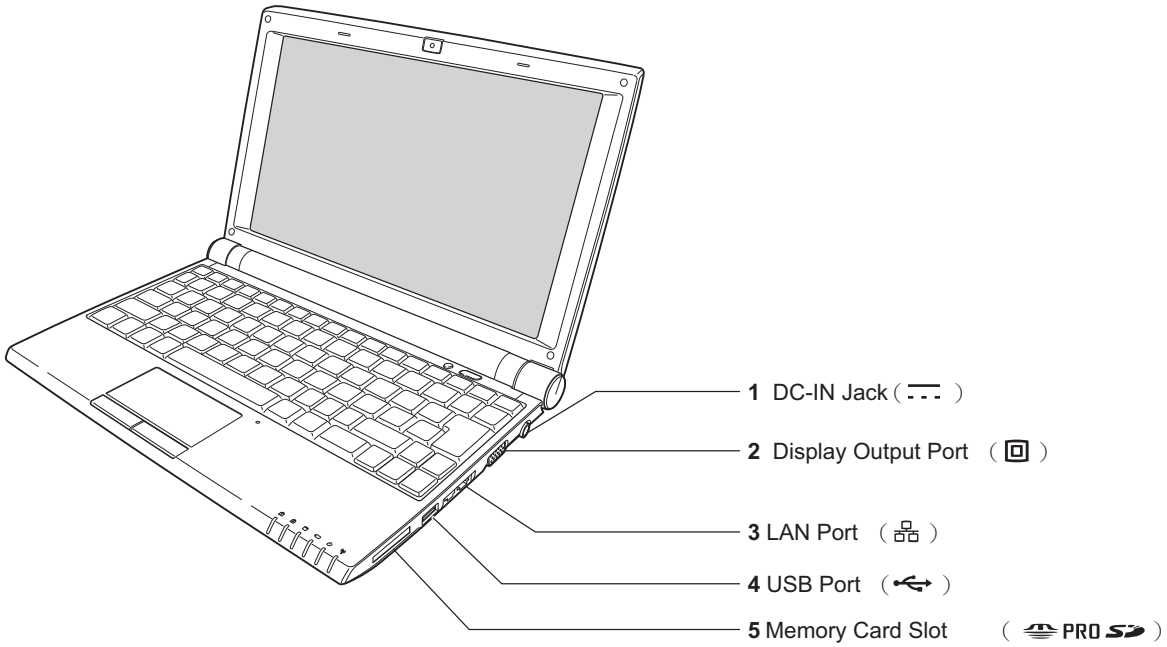
9 Touchpad (right button・left button)

The touchpad and its buttons comprises a pointing device that provides the same functions as a desktop mouse.
(☞Page 22)

10 Touchpad

This is the pointing device of the notebook.(☞Page 22)

Right Side



1 DC-IN Jack (⎓)
To connect the AC adapter (☞Page 18)

Attention
- To prevent damage to the notebook and battery pack, always use the supplied power adapter.
- May become warm to hot when in use. Be sure not to cover the adapter and keep it away from your body.

2 Display Output Port (⧈)
To connect an external monitor (☞Page 46)

3 LAN Port (品)
The 10/100/1000 Ethernet connector is used to connect a LAN cable for network connection.

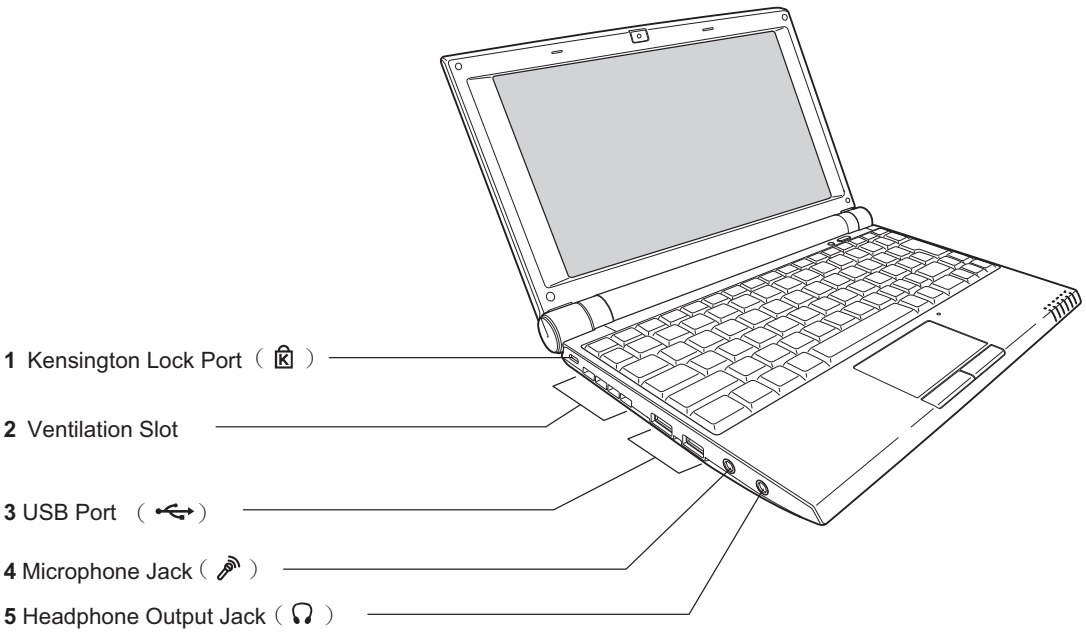
Attention
- The cable which can be connected to the LAN port is the 10BASE-T/100BASE-X/1000BASE-T standard Ethernet cable.Please do not use the cable other than that.
- Do not connect the especially ISDN cable and the modular cable to the LAN port. It may be broken to cause damage.

4 USB Port (⇐)
The USB port is compatible with USB 2.0 or 1.1 devices. It allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs. The USB also supports hot-swapping function.(☞Page 38)

5 Memory Card Slot (PRO SD)
The following cards listed belowncan be used on this notebook.
(☞Page 39~40)
- Memory Stick
- Memory Stick Pro
- SD
- MMC

Notice
- Memory cards have different insert directions, Please make sure the correct direction before insert it into the memory card slot.
- miniSD card cannot insert into the memory card slot. Please verify the card type before you insert it.

Left Side



1 Kensington Lock Port

Allows the notebook to be secured using Kensington Lock.

2 Ventilation Slot

The slot is designed to cool the system. DO NOT block the ventilation for air circulation.

3 USB Port

The USB port is compatible with USB 2.0 or 1.1 devices. It allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs. The USB also supports hot-swapping function.

(☞Page 38)

4 Microphone Jack

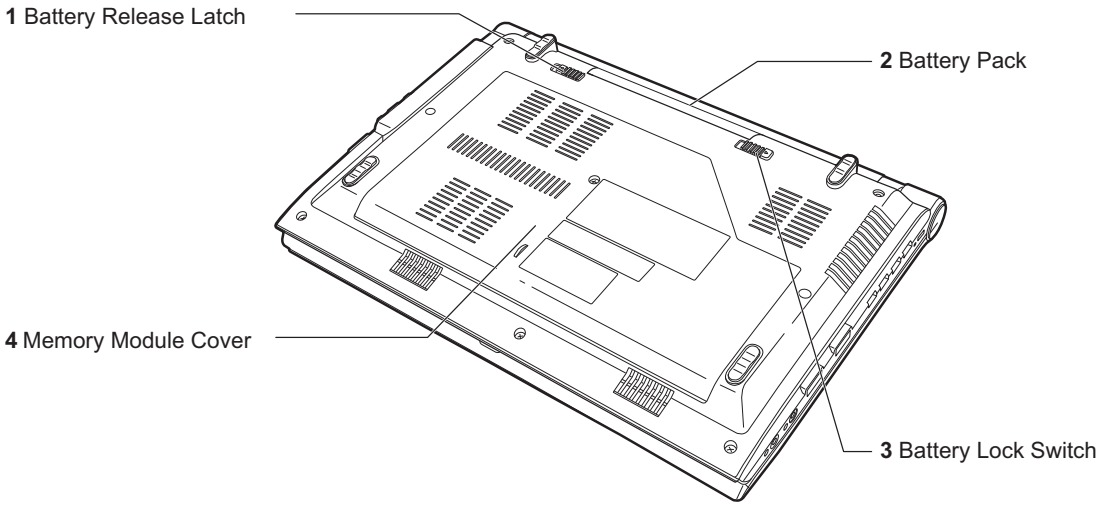
It is designed to connect the microphone used for Skype, voice narrations, or simple voice recordings.

(☞Page 37)

5 Headphone Output Jack

It connects the notebook's audio out signal to amplified speakers or headphones. Using this jack automatically disables the built-in speakers. (☞Page 37)

Bottom Side



1 Battery Release Latch

The latch keeps the battery pack secure. When the battery pack is inserted, it will automatically lock. When removing the battery pack, this latch must be retained in the unlocked position. (☞Page 21)

2 Battery Pack

The notebook will be powered by the battery pack when the AC adapter is disconnected.
(☞Page 18, 21)

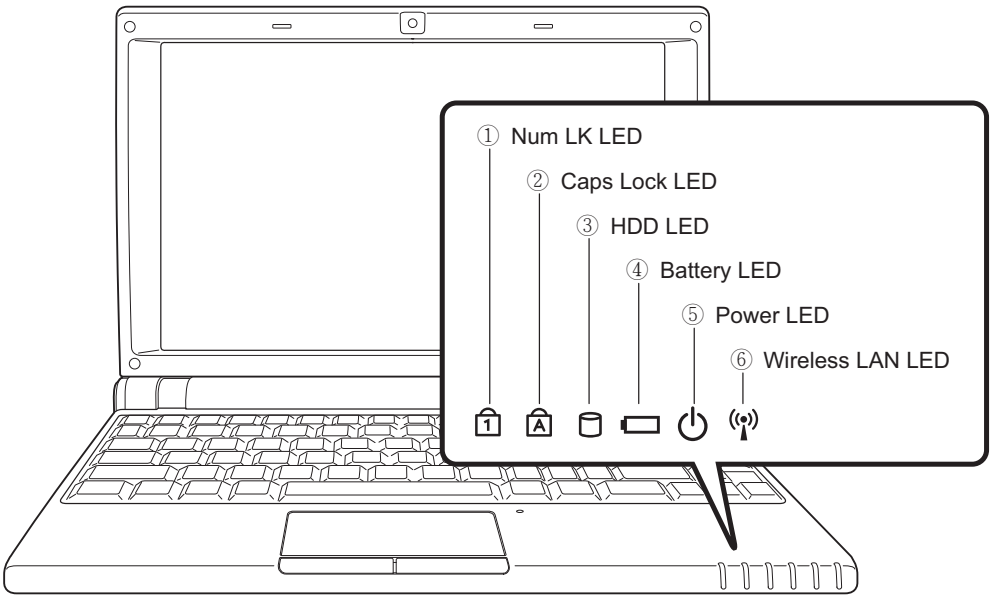
3 Battery Lock Switch

The switch is used to keep the battery pack secured. Move the lock to the unlocked position to insert or remove the battery pack. Move the lock to the locked position after inserting the battery pack.
(☞Page 21)

4 Memory Module Cover

The memory module, hard disk drive, and wireless LAN module are located under the cover. Please take the cover off when adding/removing the module.
(☞Page 42, 44)

About Status LEDs



① **Num LK LED** ( )

This LED lights when you press Num LK key in keyboard.

② **Caps Lock LED** ( )

Pressing Caps Lock key will set this LED lights and in lower case when the Shift key is pressed the letter typed will be in lower case.

③ **HDD LED** ( )

The LED blinks when data is written to or read from HDD.

Attention

- When HDD LED light up, please do not directly push the power button to turn off the notebook. It is possibe to damage the data or notebook.
- After turn OFF the notebook, please wait 5 more seconds for the second time power on.

④ **Battery LED** ( )

It shows the status of the battery's power.
(☞Page 19)

⑤ **Power LED** ( )

The LED lights when the notebook is turned ON and blinks slowly when the notebook is in the Save-to-RAM (Suspend) mode. The LED is off when the notebook is turned OFF.(☞Page 19)

⑥ **Wireless LAN LED** ( )

When the built-in WLAN is enabled, the LED lights.
(☞Page 29)

Connecting AC Adapter and Charging Battery

For the First Time Using

The battery included in the package is not fully charged. When you use the notebook for the first time, please connect the AC adapter after slide the battery pack.

Waring

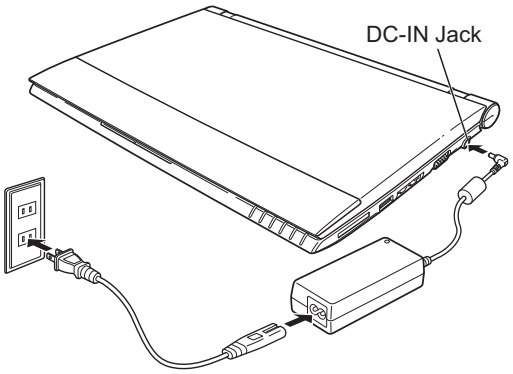
- DO NOT use the AC adapter not included in the package. Use of another type of adapter may risk fire or explosion.
- DO NOT allow anything to rest on the AC adapter. It may overheat the AC adapter and risk fire or explosion.

Tip

- You can use the notebook while charging the batery.

■Connecting AC adapter and charging battery

1 Connect the DC plug to DC-IN Jack.



2 Connect the AC power cord to the AC adapter and connect the AC power cord to an AC outlet.

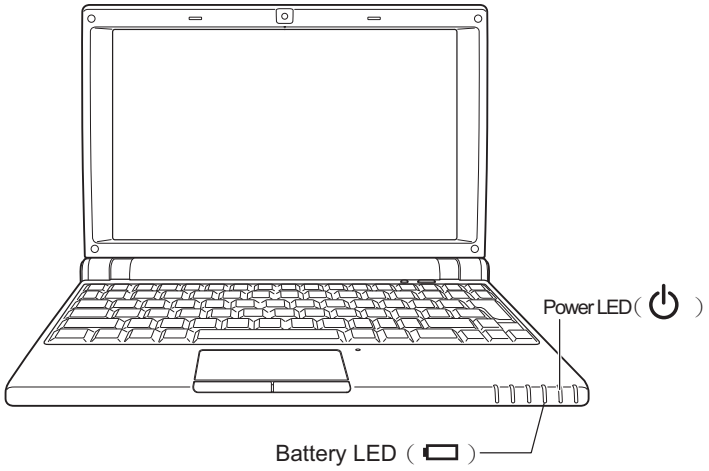
Battery LED （▭）lights and the charge of battery starts.

Tip

- The notebook comes with a universal AC-DC adapter for connecting to any 100V-240V outlets without setting switches or using power converters.
  Different countries may require an adapter to connect the provided AC power cord to a different standard. Most hotels will provide universal outlets to support different power cords as well as voltages.

  When operating with the battery only, please remove the AC adapter.When using with AC power, please connect the AC adapter.

■Power and Battery Status LEDs



Power LED( )

Status	Content
Blue ON	The notebook is powered on
Blue Blinking	The notebook is in suspend mode
Orange Blinking	Battery charge is between 6% ~ 3%
Red Blinking	Battery charge is less than 3%

Battery LED ( )

Status	Content
ON	Battery charging
OFF	Battery is fully charged

Attention

- Battery pack cannot be exchanged during battery charging.
  For “Removing and Installing the battery” (☞Page 21)
- When the charge remained amount of the battery is small, your data is possible to lose if your continue to operate the notebook. When the remained charge of the battery is gone entirely, even while using the application the power will be OFF. When alarm of the battery sounds, please store your data immediately.

■Difference of stand-by and hibernate state

・Stand-by

Put the notebook on stand-by when it is idle. While on standby, the notebook switches to a low-power state where devices, such as the monitor and hard disks turned off and the notebook uses less power. When you want to use the notebook again, it comes out of stand-by quickly, and your desktop is restored exactly as you left it. Stand-by is particularly useful for conserving battery power in portable computers. Because Stand-by does not save your desktop state to disk, a power failure while on Stand-by can cause you to lose unsaved information.

・Hibernate

Put the notebook in hibernation. The hibernate feature saves everything in memory on disk, turns off your monitor and hard disk, and then turns off the notebook. When you restart the notebook, your desktop is restored exactly as you left it. It takes longer to bring your notebook out of hibernation than out of stand-by.

Set Warning Alarm for Battery Condition

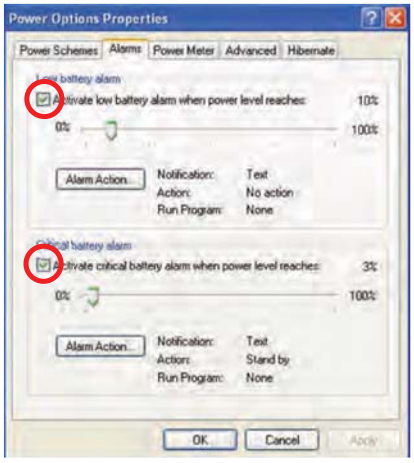
There are several power options can be set for the notebook. You can also set up the alarm methods for battery condition.

1 Click [Start] → [Control Panel] → [Performance and Maintance] → [Power Options].

2 Click “Alarms”.

3 Click and check the selection box.

Set Up Battery Alarm



4 Click [Alarm Action].

Set up the actions that the notebook will do after the alarm.

■Set Up Low Battery Alarm Action

Click [OK] after complete the setting.

① **Notification**

Select the method of warning notification

Tip

- It is possible also to select both notification methods.
- When you mute the speaker, the sound alarm will not come out, even the sound alarm is set.

② **Operation of the notebook after the alarm**

Decide how the notebook works after the warning notification selected appears.

Removing and Installing the Battery

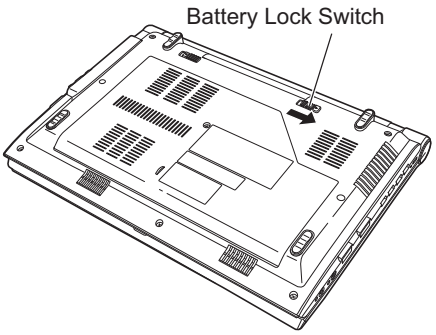
Ensure the notebook is powered off before doing battery exchange. Please ensure ( )The battery LED is off.

Attention

- DO NOT use the AC adapter not included in the package. Use of another type of adapter may risk fire or explosion.
  Do not connect the positive (+) and negative (-) terminals with a metal object such as wire. Short-circuiting may occur leading the battery pack to leak acid, overheat, emit smoke, burst and/or ignite. DO NOT throw the battery in fire.
- Please refer to the safety precautions in this manual. （☞Page 5~6）

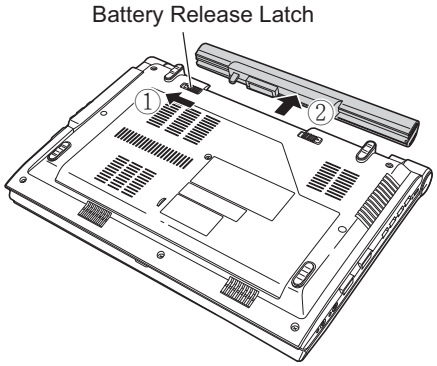
1 Before removing the battery, ensure the notebook is powered off.

2 Move the battery lock switch to the right (unlock position).

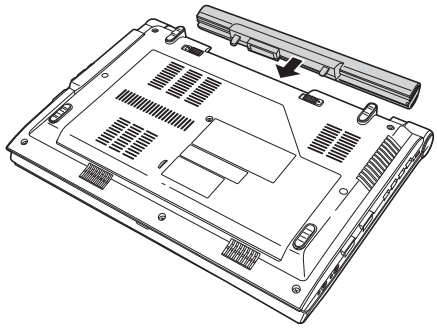


3 ①Slide and hold the battery release latch

②Remove the battery



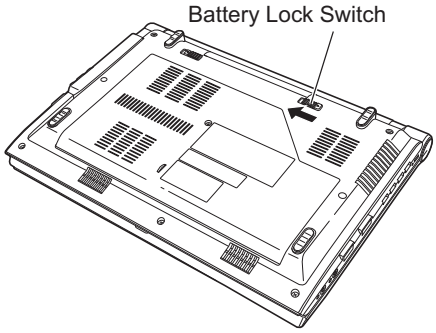
4 Slide the battery into the slot. Press it into place gently but firmly until the latch locks it into place.



Tip

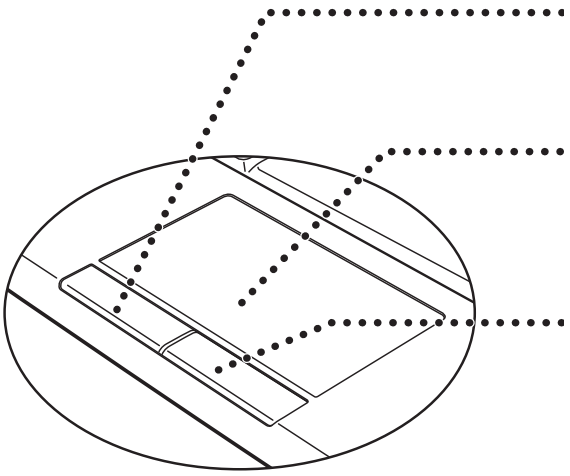
- Ensure the battery lock switch is unlocked then insert the battery firmly.

5 Slide the battery lock to switch back to the locked position.



Using Touchpad

Introducing the Touchpad



Left Button

The left button has the same function as mouse left button. Making selections, dragging objects, or double clicking.

Touchpad

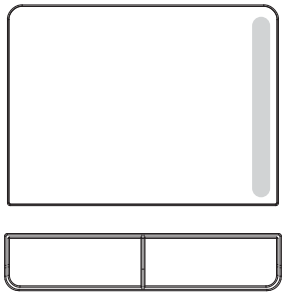
Move the pointer over the icon you wish to execute, press the left button or tap the pad twice in rapid succession, and the system launches the corresponding program. If the interval between the clicks or taps too long, the operation will not be executed.

Right Button

The right button has the same function as mouse right button. When clicking the right button, the shortcut menu is indicated.

■Scroll Operation

Using the fingertip to slide up or down on the grey area of the touchpad to scroll a window up or down.

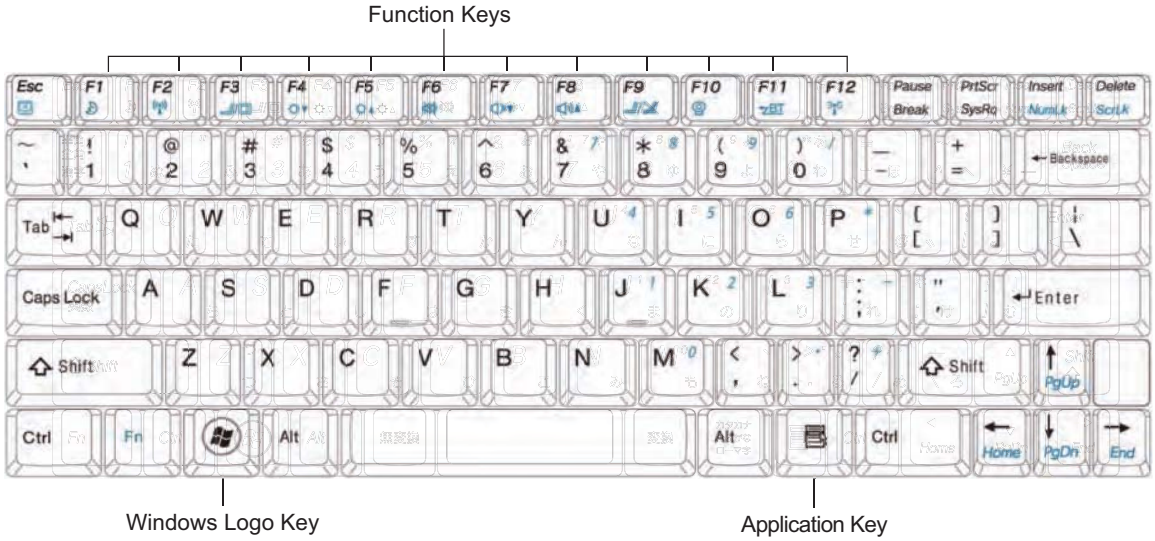


Attention

- DO NOT use something like the nib or pointed object to touch the touchpad. It may cause touchpad damage.
- DO NOT operate the touchpad with wet finger. Sometimes, the touchpad doesn't function normally with the sebum and the soiling of the fingertip. Please clean your fingertip if necessary.
- Just touch and move the pointer gently, when finger touch the touchpad with the power above necessity or operate in unreasonable gesture, it may hurt your finger or wrist.

Using Keyboard

Explanation of the Keys on a standard Windows keyboard



■Windows Logo Key

Pressing the key in combination with other keys allows invoking many common functions through the keyboard.

+ F1	Open “Help and Support Center” in Windows XP
+ M	Minimize the Window
+ Tab	To Switch Between Active Windows
+ R	To open Run Dialog
+ E	To open My Computer
+ F	To open Search
+ Pause	To Open System Properties
+ Ctrl + F	To open Search For Computers program

■ Application Key

The Application Key functions as same as the right button on touchpad or mouse.

■ Function Keys

The Function Keys at the top of the keyboard provide shortcuts to do things in the Windows operating system. If you are using a program such as a word processing application or spreadsheet, the function keys can have different uses in the program.

Fn Key

The following defines the hot keys on the keyboard. The commands can only be accessed by first pressing and holding the Fn key while pressing a key with a icon.

■Power Saving Function

Fn + F1

Places the notebook in suspend mode (Save-to-RAM).

(☞refer to Page 19)

Press the power button to return from suspend mode(☞Page 10)

■Wireless LAN Function

Fn + F2

Toggles the internal wireless LAN ON or OFF.(☞Page 29~31)

■LCD/External Monitor Display Function

Fn + F5

Toggles between the notebook's LCD display and an external monitor in this sequence:

①notebook LCD only
②CRT(External Monitor) only
③LCD+CRT Clone

■LCD Brightness Adjust Function

Fn + F6 / F7

Decrease and Increase the display brightness

■Speaker Mute Function

Fn + F3

Mute the speaker

■Speaker Down/Up Function

Fn + F8 / F9

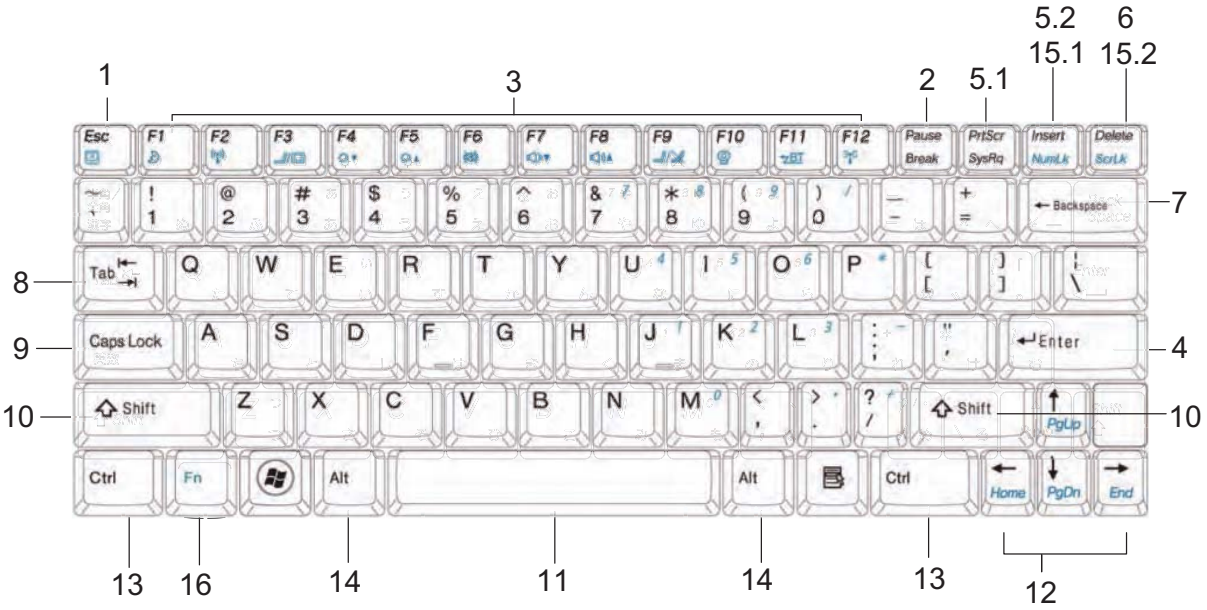
Decrease and Increase the speaker volume

■LCD Display ON/OFF Function

Fn + F10

Turns off the display backlight

Function of Keys



■Sending the Commnad to Discontinue or Interrupt the Operation

1 ESC (Escape)

Equivalent to clicking the Cancel button.

2 Pause/Break

Pressing it to stop the execution of the current program or transmission.

■Programmed to Perform Certain Actions

3 Function Keys

The function keys perform different functions in different applications and programs. In combination with other keys these function keys perform different functions.

■Sending Command (Order)

4 Enter

Creates a new Paragraph or what is referred to as a Hard Return. In any dialog box a selected button or command can be selected by depressing this key.

■Taking the Hard Copy of the Screen

5.1 Prt Sc (Print Screen)

Pressing the Print Screen key causes the computer to send whatever images and text are currently on the display screen to the printer. Some graphics programs and Windows, use the Print Screen key to obtain Screen Captures.

■Compiling Text

5.2 Insert

Allows text to be inserted. When insert is enabled, the text inserted in a document will not overwrite any other text. However, when disabled, text will be overwritten.

6 Delete

While working with text, use this key to delete characters to the right of the insertion point. This key can also be used to delete selected files.

7 Backspace

While working with text, use this key to delete characters to the left of the insertion point.

8 Tab

This key can be used to move forward through options in a dialog box. Ctrl + Shift + Tab can be used to move backward through the options. Ctrl + Tab allows movement from one open window to the next in an application with more than one open window.

■Combining to Input Text

9 Caps Lock

Pressing it will set a keyboard mode in which typed letters are capitalized by default and in lower case when the Shift key is pressed; the keyboard remains in this mode until Caps Lock is pressed again.

10 Shift

Giving the other keys an alternate meaning. When combined with alphabetic keys, the Shift key causes the system to output a capital letter. The Shift key can also be combined with other keys to produce program-dependent results.

11 Space

To enter the space between words during typing.

■Cursor Movement

12 Cursor Keys

The keys that move the pointer, or cursor, on screen. They include the up, down, left and right arrow, home , end, PgUp and PgDn keys.

■Combining the Other Key to Execute Function

13 Ctrl (Control)

Ctrl is a key commonly used to refer to a keyboard shortcut key such as:
Ctrl+Alt+Del

14 Alt (Alternate)

Alt is a key generally located by the space bar on keyboards. This term may be used to describe a key combination such as:
Ctrl+Alt+Del
The above combination means press and hold on the keyboard CTRL and ALT and DEL to perform the function, in this case reboot the computer or open the close program window / task manager window.

15.1 Num Lk（Number Lock）

Turning the Num Lock on will allow you to use the numbers on the keypad.

15.2 Scr Lk (Scroll Lock)

The scroll lock key is intended to temporarily stop the scrolling of text or halt the operation of a program.

16 Fn (Function)

The commands can only be accessed by first pressing and holding the Fn key while pressing a key with a icon.（☞Page 24）

Adjusting Volume

About the Built-in Speaker

The stereo speaker is built in to the product.Three types of sound sources can be output from the speaker. You can do the adjustment with "Volume Control" of Windows.

PC Speaker	The notebook built-in sound, normally hear "beep" sound from the notebook.
Digital Sound Function	The sound playback from the sound circuit using 16bit D/A converter and the sound output from FM synthesis.
Microphone Input	The sound is from the microphone connected to the microphone jack or the built-in microphone.

Adjusting Speaker Volume

Adjust the volume of the speaker/headphone as follows.

■Using Keyboard to Adjust Volume

Volume can be adjusted from the function key of the keyboard.

First pressing and holding the Fn key, then pressing F8 and F9 key to decrease and increase the volume.

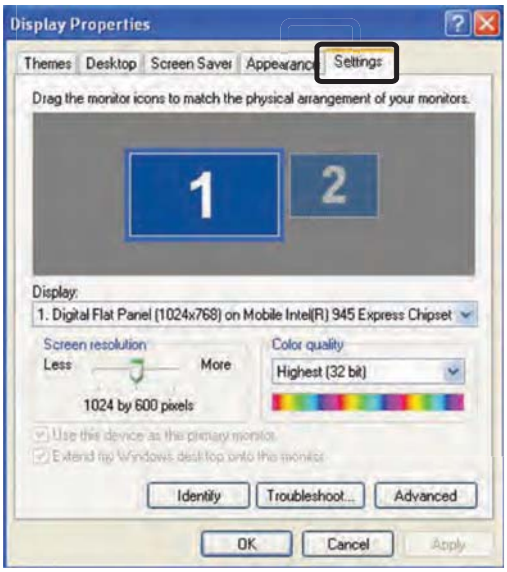
Adjusting LCD Resolution

Changing Screen Resolution and Color Quality

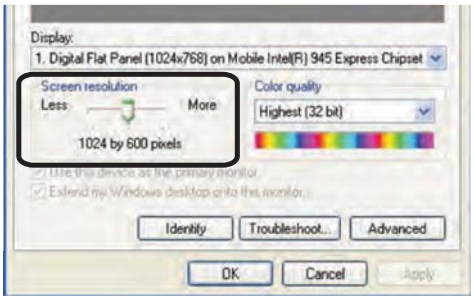
You can adjust screen resolution and color quality in “Display Properties”.

1 Right Click on the desktop, select [Properties] from the menu.

2 Select [Setting] tag.



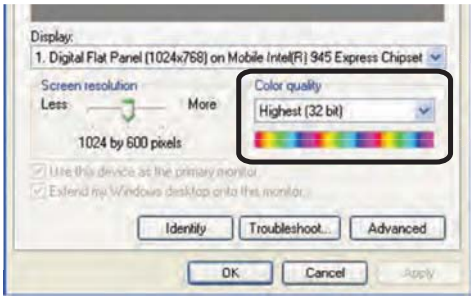
3 Slide the bar left and right, selects the resolution of the screen.



Tip

- The default screen resolution of the notebook is 1024 x 600.

4 Click the selection box to select the Color quality.

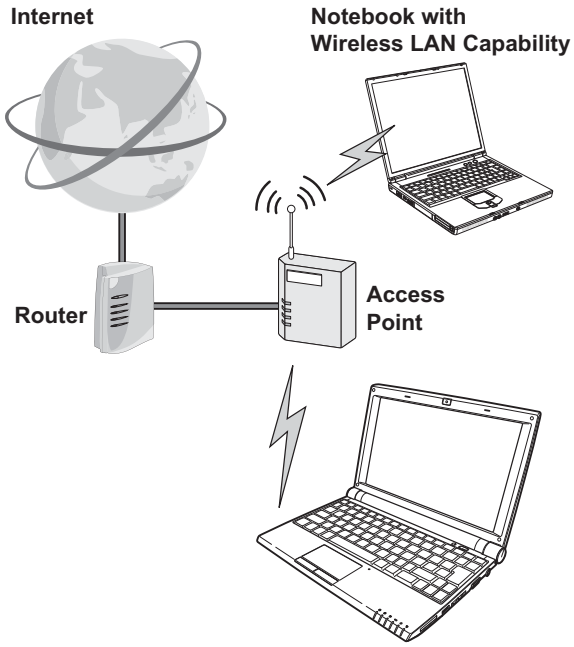


5 Click [Apply].

6 Click [OK].

Using Wireless LAN

What Is Wireless LAN?



■Data Communication by Radio Wave

Wireless means using radio frequency signal to do data exchange without LAN cable.

■Internet Connection Capability

Combined with router and access point, the notebook can access internet without any LAN cable.

Notice

- WLAN function built in the notebook follow IEEE 802.11b, IEEE 802.11g and Bluetooth standard.
- Please turn off wireless LAN function when the noise with electrical interference effect is produced.
- Please do not use wireless LAN in the area where the radio device is prohibited.

Security Notice

If the security setting is not done, it is posible to occur problem when you exchange information with wireless LAN.

●Communication contents can be peeped

It is possible for the third party with malice to intercept radio wave intentionally.The following kind of communication contents can be peeped.

- Private information such as ID, password or credit card number etc.
- Mail contents

●Wireless LAN Invasion

It is possible for the third party with malice accessing the private/company network without permission and doing the following kind of behaviors:

- Retrieve private and confidential information (secret disclosure)
- Send a program that appears legitimate to the notebook, but performs some illicit activity when it is run.(Trojan)
- Rewrite the communication contents (alteration)
- Infect computer virus and destroy the system (destruction)

It is customer's responsibility to do the setting of network security. The customer has to sufficiently understand the result occured without setting network security.

Specification of Wireless LAN

The specification of Wireless LAN module.

※Transmission speed and communication range is changable. They depend upon radio wave environment, the connected equipment and the application applied.

※Transmission speed is the speed definied by standard (theoretical value), it differs from actual data rate.

Standard	IEEE802.11b/g Compliance (2.4GHz band)
Maximum Transmission Speed	54Mbps（IEEE802.11g） 11Mbps（IEEE802.11b）

※When the radar wave (weather radar and the like) is detected wihile doing the communication, for modifying the automatic channel operation, sometimes the communication is discontinued.

Connecting Wireless LAN

■Set Up Automatic Wireless LAN Recognization

1 Press Fn + F2 or wireless LAN switch to turn on wireless LAN function. When wireless LAN is enabled , the Wireless LAN LED lights.(☞Page 17)

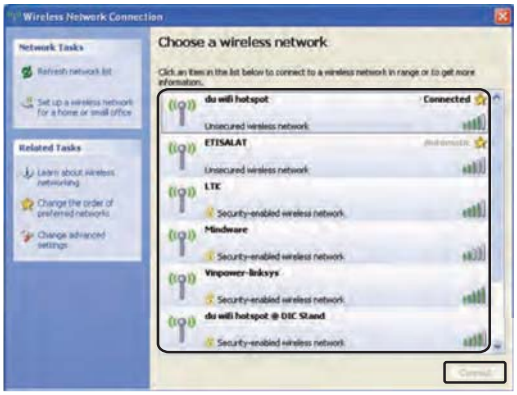
Tip

- The connection message will appear on task bar when the possible wireless LAN connection is detected.

2 Click the wireless network connection icon and the program of Wireless Network Connection will be launched.

Wireless Network Connection Icon

3 Select a wireless network from the list that appears , and then click [Connect] button. If the network you is security enabled, the program will ask you to type “Network key”.



Tip

- Click [Refresh network list], if there is no wireless network in the list.

- If the network is one that support “Wireless Provisioning Services”, you might be asked to download additional files that will allow your notebook to connect the network.

- If you connect to a unsecured wireless netwrok, the warning message will appear. Directly click [Connect] to connect or click [Cancel] to quit the dialog box.
  After setting up the security, connecting the wireless LAN again.

4 Type [Network key] and [Confirm network key], click [Connect] to connect wireless LAN.

Wireless Network Connection
The network 'LTE' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.
Type the key, and then click Connect.
Network key:
Confirm network key:
Connect
Cancel

Tip

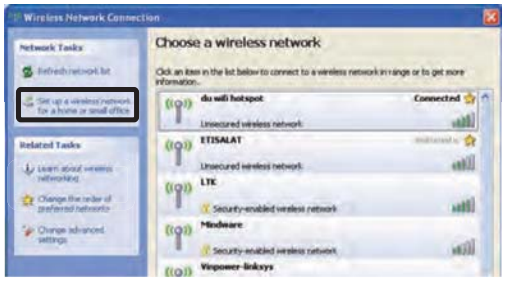
- If the network key automatically provide by the network, the connection will be made automatically, and the program will not request you typing network key.

- Sometimes, setting up network is necessary.

■Manually Set Up Wireless LAN

1 Apply the step 1 and 2 mentioned for “Set Up Automatic WLAN Recognization”.

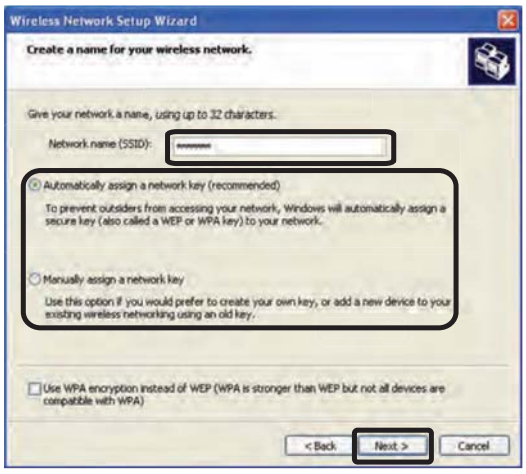
2 Click [Set up a wireless network for a home and small office] on “Network Tasks”, and begin the setup.



3 Click [Next]

Wireless Network Setup Wizard
Welcome to the Wireless Network Setup Wizard
This wizard helps you set up a security-enabled wireless network in which all of your computers and devices connect through a wireless access point. (This is called a wireless infrastructure network)
To continue, click Next.
Next >
Cancel

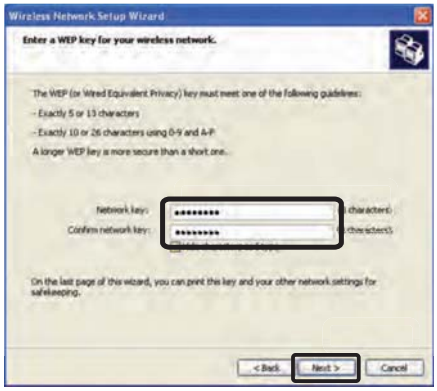
4 Type “Network name (SSID)” and choose the method to assign a network key, click [Next]


Wireless Network Setup Wizard
Create a name for your wireless network.
Give your network a name, using up to 32 characters.
Network name (SSID):
Automatically assign a network key (recommended)
To prevent outsiders from accessing your network, Windows will automatically assign a secure key (also called a WEP or WPA key) to your network.
Manually assign a network key
Use this option if you would prefer to create your own key, or add a new device to your existing wireless networking using an old key.
Use WPA encryption instead of WEP (WPA is stronger than WEP but not all devices are compatible with WPA)
< Back
Next >
Cancel

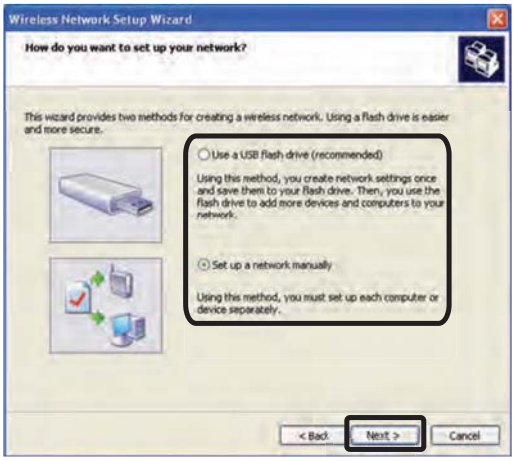
Tip

・If you choose “Automatically assign a network key”, go to step 6.

5 Type the Network key and Confirm network key, click [Next].



6 If you want to save network settings to your flash disk, please choose “Use a USB flash drive” or “Set up a network manually”, click [Next].


Wireless Network Setup Wizard
How do you want to set up your network?
This wizard provides two methods for creating a wireless network. Using a flash drive is easier and more secure.
Use a USB flash drive (recommended)
Using this method, you create network settings once and save them to your flash drive. Then, you use the flash drive to add more devices and computers to your network.
Set up a network manually
Using this method, you must set up each computer or device separately.
< Back
Next >
Cancel

7 Click [Finish] and the notebook will connect to a wireless LAN.

Tip

Sometimes, setting up network is necessary.

■Finish Setting Up Wireless LAN

1 Press Fn + F2 or push wireless LAN switch to turn off wireless LAN function, and the wireless LAN LED will be off.

Using the Bluetooth Functionality

If the bluetooth functionality is available on the model you bought,you can establish wireless communication between your notebook and other Bluetooth devices such as another pc or a mobile phone,a keyboard,a mouse,a printer withought cables. .

To connect a Bluetooth device

Using the Function key FN+F11(refer to the key silk) to turn on Bluetooth, Right-click or double-click the Bluetooth icon on the taskbar and select the enable Bluetooth device option.

Tips :For setting up and using the Bluetooth functionality,see the help file on the Bluetooth utility software.

The availability of the functions depend on the configuration of notebook you bought,see the Spec to see whether your model supports the function

Using Web Camera

For giving an example, we use the web camera software "YouCam" to explain how web camera works in the notebook.

Function of Web Camera Software

The main function of YouCam is as follows.

- Still image capture
  The still image can be photographed from web camera.
- Animated image capture
  Animated picture can be photographed from web camera.

Tip

Please refer to the help of YouCam for the detail information of each function.

Launch Web Camera Software

Web camera software "YouCam" is launched.

1 Double click the "CyberLink YouCam" icon in desktop.

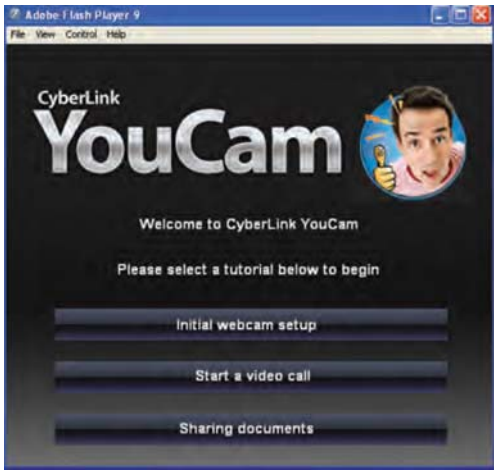
The "CyberLink YouCam" welcome screen will appear.

Tip

In case of the user's registration picture appeared, please register the prodcut.

You can also register the product later.

2 Click [Initial webcam setup] to set up "YouCam".



"CyberLink YouCam" picture is appeared.

Tip

After setup finished, when you double click "CyberLink YouCam" icon, "the CyberLink YouCam" screen appears.

3 To finish YouCam operation, please click the ✕ icon.

■Look for Help

The method of starting the help of YouCam is as follows.

1 Please click the ? icon to start the help of YouCam.

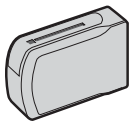
Start the help of YouCam

Using Peripherals

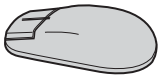
Right Side

USB Port

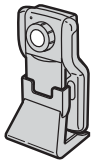
USB2.0 Compatible Peripherals（☞ Page 38）



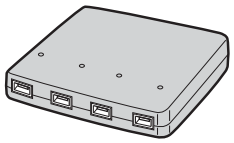
・Card Reader/Writer



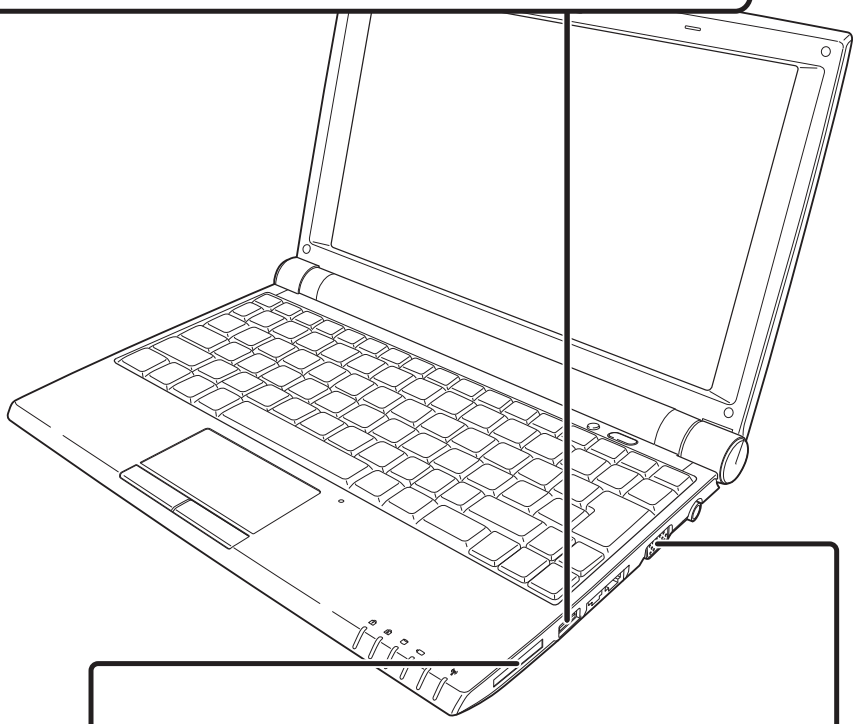
・USB Mouse



・CCD Camera

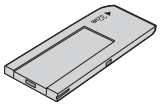


・USB Hub



Memory Card Slot

Memory Card（☞Page 39~40）



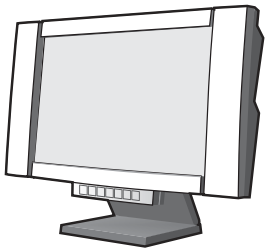
・Memory Stick
・Memory Stick PRO

・SD Card

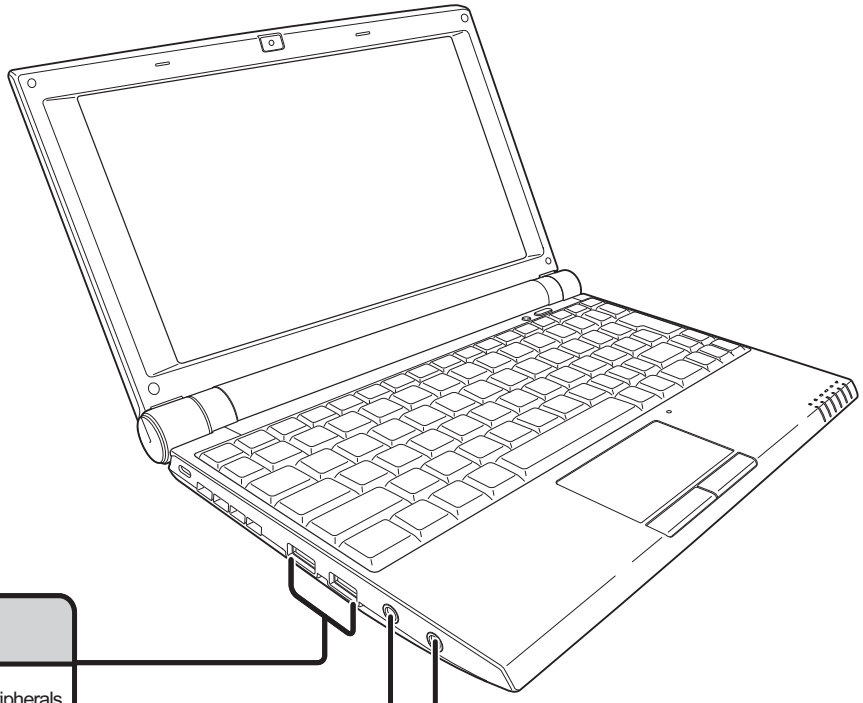
・MMC

Display Output Port

External Display（☞ Page 46）



Left Side



USB Port

USB 2.0 compatible peripherals
(☞ Page 38)

Microphone Jack

Microphone
(☞ Page 37)

Headphone Jack

Headphone
(☞ Page 37)

Before Installing Peripherals

Turn Off the Notebook

Turn off the notebook and unplug the AC power cord from AC outlet before the installation. Otherwise, it may damage the notebook and the peripheral.

Tip

- While the notebook is powered on, the following devices is able to remove from the notebook.
  - USB Compatible Devices
  - Memory Stick
  - Memory Stick Pro
  - SD Card
  - MMC

1 Turn off the notebook.

（☞Page 10）

2 Disconnect the DC plug of the adapter from your notebook.

Attention

Avoid to cut your hand during device removal or installation, we suggest you to wear gloves.

Installation Notice

■Please Remove the Static Electricity of Your Body

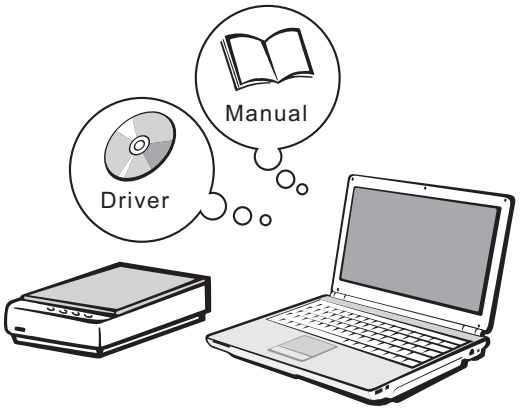
Because the parts such as memory and circuit board is extremely weak to the static electricity. It is possible to damage the parts when your hands touch them. Please touch the metal object such as knob of the door to remove the static electricity which has been electrified in the body before the peripheral installation.

■Please Read the User's Guide

If you install or remove the pheripherals in a wrong way, it is possible to damage the peripheral. Please read this manual well before doing the installation.

■Please Read the Manual of the Peripheral Device

The manual and driver CD always come with the peripheral, please read through the manual before the driver installation.

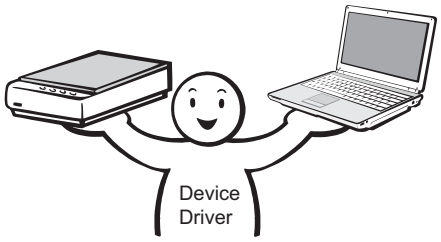


About Plug and Play

Plug and Play is a capability developed by Microsoft for Windows operating systems that gives users the ability to plug a device into a computer and have the computer recognize that the device is there. It is necessary for the device driver of the peripheral device to be prepared well on Windows side.

When the driver is not prepared, using the wizard function of Windows, it installs device driver to Windows.

Tip



When using the peripheral device, the software which controls the peripheral device which is called “device driver” is necessary. The driver is offered with the CD-ROM or similar one, and it is possible to download it from the manufacturer website.

■When Device Driver Is Built In Windows

When the device driver of peripheral device has already been built in Windows, just install the peripheral device directly.

1 After installing the peripheral device, turns its power ON.

In the task bar under the desktop, “Found New Hardware” message pops up.

Notice

Sometimes,"Found New Hardware - USB Mass Storage Device" message appears, rather than automatically loading the USB driver.

■When Device Driver Is Not Built In Windows

When the device driver is not built in Windows, the specific driver has to be installed.

1 After installing the peripheral device, turns its power ON.

“Found New Hardware Wizard”dialog box appears.

2 Click [Next].

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

3 Follow the instructions of the wizard for the operation.

When the “Installation finished” message appears, the setting is done.

4 Click [Finish].

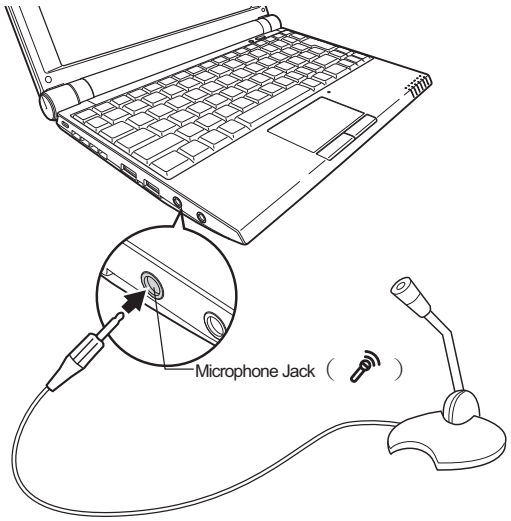
Notice

In case, you have to set the resources such as IRQs for driver installation.
Please inquiry the device manufacturer for the detail information if necessary.

Connecting AV Equipments

Connecting Microphone

Connect the microphone plug to the microphone jack on the notebook. This will make the notebook to record voice and sound.



Tip

- Ensure the notebook is not in “Speaker Mute” mode before you use microphone.
- Please purchasing the microphone with mini-pin plug.
- If the microphone is close to the speaker, sometimes they will produce resonance and occur the howling sound. You can move the microphone away from the speaker, or use Volume Control to reduce the level of system sound to prevent this phenomenon.

Connecting Headphone

Connect the headphone plug to the headphone jack on the notebook. The voice or sound will output from the headphone instead of speaker.

Tip

- Please purchasing the headphone with mini-pin plug.

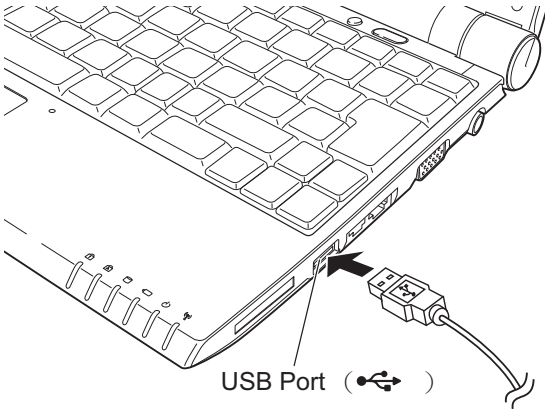
Using USB Compatible Peripherals

Must Know for USB Connection

- Before connection, please install the driver of USB device.
- Ensure the specific direction for plugging USB cable. DO NOT force to plug the cable into the port.
- Plural USB ports are located in the notebook, you can choose the port you want to use.
- If you need more USB ports, you can connect a USB hub to increase the ports.

Connecting USB Compatible Peripherals

1 Plug the USB cable into the USB port of the notebook.



After plugging the USB cable, the “Found New Hardware Wizard” will appear.

2 Follow the instruction of the wizard until [Finish]

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
Cancel

button appears. It means the USB connection setting is done.

Notice

- If the wizard doesn’t pop up, please unplug the USB cable and plug it again after 3 seconds.
- The specific USB drivers is required, if it is not built in this USB device.

3 Click [Finish] button.

Depends on what USB device you connect, the software installation may be required later.

Notice

- You can use the USB device immediately, when plug it into the USB port next time.
- If the USB device is connected to the different USB port, the “Found New Hardware Wizard” will appear. Please follow the steps above to do the setup again.

Using Memory Card

Type of Memory Cards

The following types of memory card listed below can be used on this notebook.
You can use memory cards to store or read your files.

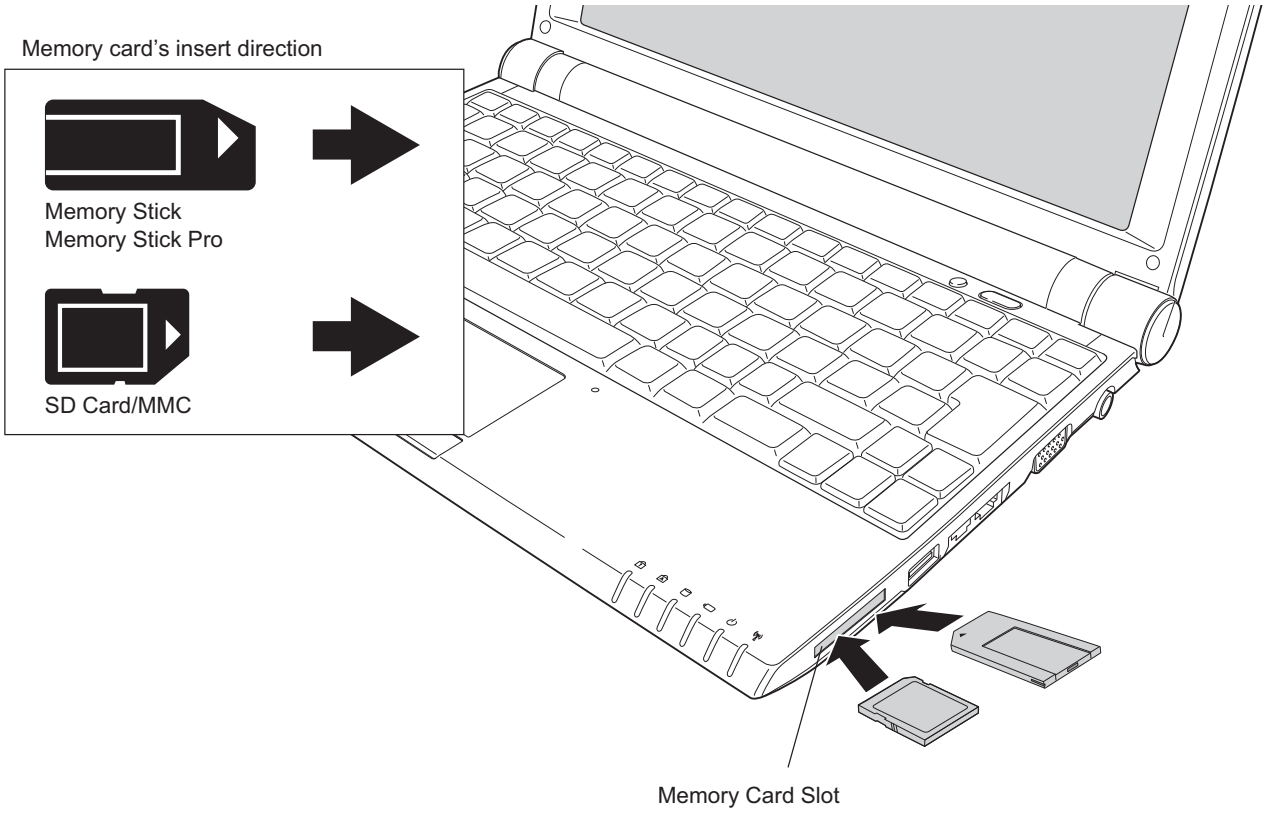
Memory Card	Copyright Protection	Erasion Prevention
SD	Yes	Yes
SDHC	Yes	Yes
MMC	No	No
Memory Stick	Yes	Yes
Memory Stick Pro	Yes	Yes

Notice

- The information disclosured in this manual is based on the data collected when compiled this manual.

Insert Direction for Memory Cards

The different insert directions of memory cards are showed below.
Verifying the correct direction and inserting the card.



Inserting Memory Card

The procedures of using memory card are showed below.

1 Ensure the correct insert direction and insert the card into the slot surely.

Notice

- Each kind of card has its specific insert direction. Ensure you insert the card in right direction.
- The“miniSD card” or the “memory stick duo” and so on which does not mentioned in the manual, cannot be used with the notebook. Before inserting the memory card, please verify card types.

2 Select the action you want and click [OK].

Removable Disk (E:)
This disk or device contains more than one type of content.
What do you want Windows to do?
Play using Windows Media Player
Copy pictures to a folder on my computer using Microsoft Scanner and Camera Wizard
View a slideshow of the images using Windows Picture and Fax Viewer
Print the pictures using Photo Printing Wizard
Open folder to view files using Windows Explorer
Take no action
OK
Cancel

Notice

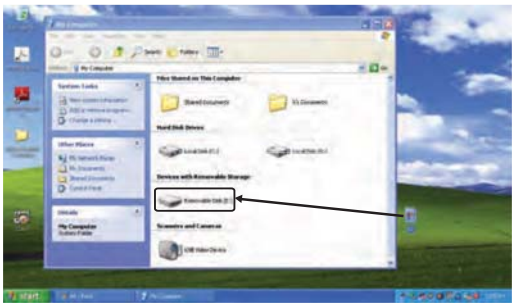
Depends on different cards you insert, the contents , the contents of the dialog box can be different.

Tip

- Click [Cancel], if you want to terminate this action.

■File Copy

When the system recognize the memory card, you can drag and drop file from the other disk to the card. The file can be copied into the card.



■About the Write-Protect Switch

There is an write-protect switch on the side of the SD card, and the rear of the memory stick.When the switch is adjusted to the “LOCK” position, it can prevent the data elimination or overwriting.

Memory Card Removal

1 Before removing the memory card, please ensure the card operation is finished (data reading and writing has been done).

Attention

While using various memory cards on Windows, please do not remove the memory card unattentively. It is possible to damage the memory card and the memory card slot.

Notice

When “Safe To Remove Hardware”icon appears, the windows is not able to recognize the memory card until Windows is restarted.

Installing Memory Module

About Memory

Memory, is something like the desk. When the top of the desk is wide, your job is easy to do. When entire capacity of memory is large, the operation of application software becomes smooth.

When the memory is small・・・

Work Flow for Memory Installation

- Turn off the notebook
- Remove battery pack and AC adapter

↓

- Memory Installation（☞ Page 42）

↓

- Verify the memory installed（☞ Page 43）

Attention

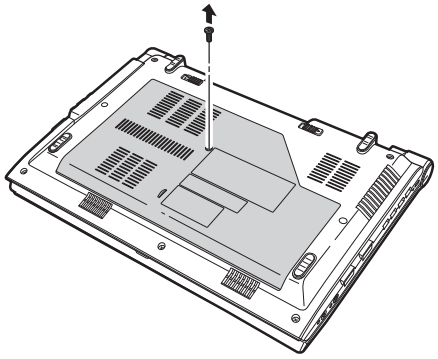
Pay attention when handling memory module

- Before installation, please turn off the notebook
- Before installation, please remove the battery pack and AC adapter.
- Memory is the extremely weak part in static electricity. It is possible to damage it when people or objects touch it with static electricity. Please remove static electricity of the body before touch the memory. （☞Page 35）
- DO NOT touch the pin of memory. It is possible to cause memory broken by pin contact failure.
- Memory is a extremely weak part, please keep or remove it carefully.

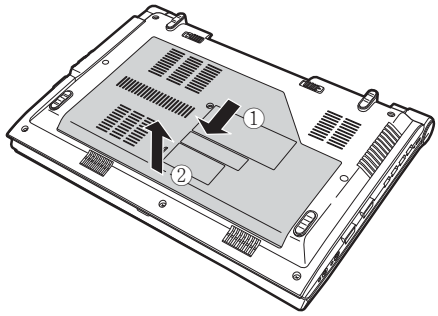
Exchange Memory

1 Close the LCD lid and turn over the notebook.

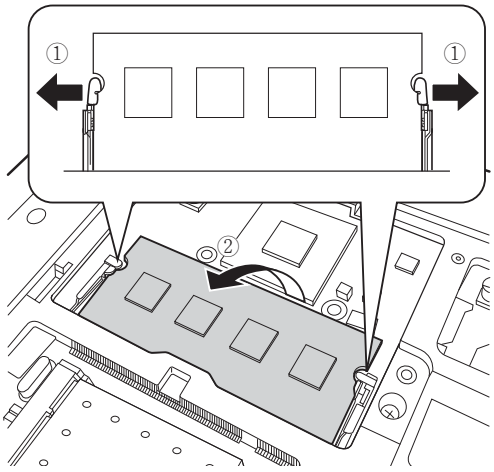
2 Remove the screw which locks the memory module cover.



3 Slide the memory module cover forward (①) Raise and remove the cover (②)



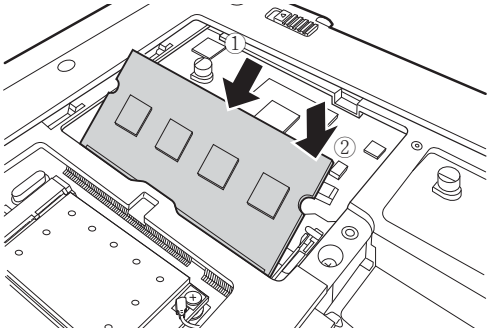
4 Open the hook which locks memory (①)
Remove memory from the memory slot (②)



Notice

When opening the hook, do not apply unreasonable force and do it prudently. When the power is applied too much, It is possible to bend the hook.

5 Insert new memory module to the connector of the memory slot (①)
Push down and insert the memory to the memory slot connector until the "click" sounds. (②)



Notice

- Please make sure not insert the memory in the wrong direction.
- Please make sure the notch on memory's lower part is agreeable to the convex section of the slot.

6 Install the memory module cover, lock with the screw.

Notice

Please do not break the nail on the right side of the memory module cover surface when you install the memory module cover.

7 Install battery pack and connect AC adapter.

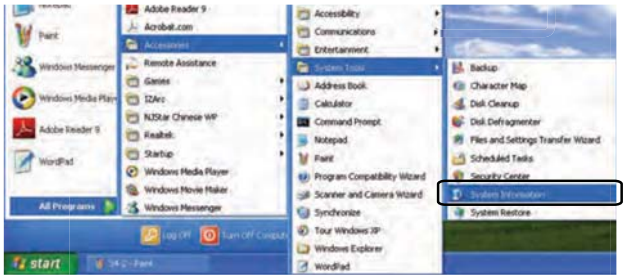
Confirm the Memory Installed

Powered on the notebook, you will verify whether memory capacity increases or not.

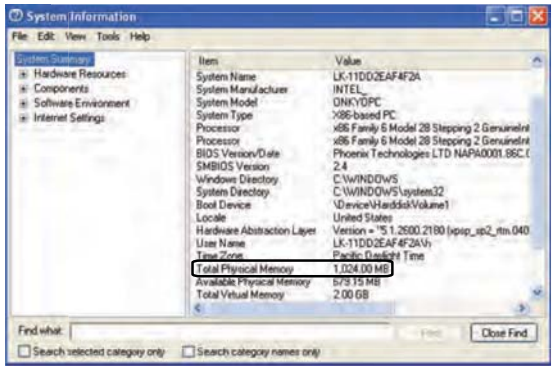
1 Turn on the notebook.

2 Click [Start], click [All Programs] → [Accessories] → [System Tools] → [System Information].

Each system information item is showed in “System Information” window after click [System Information].



3 Verify the value that indicates in the window.



Notice

When the value of the memory indicated does not increase, please verify whether memory is well installed.

Installing Other Modules

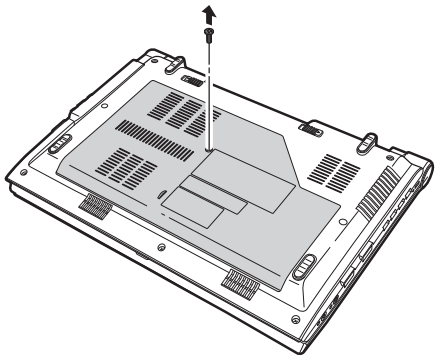
Attention

As in the same way mentioned for “Installing Memory Module”, please handle the module gently. （☞Page 47）

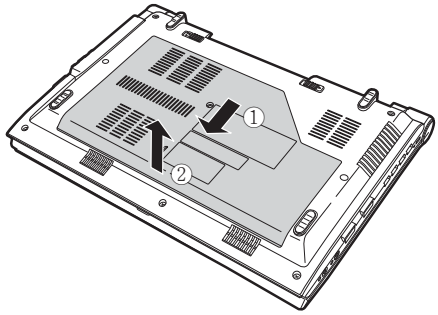
Exchange Wireless LAN Module

1 Close the LCD lid and turn over the notebook.

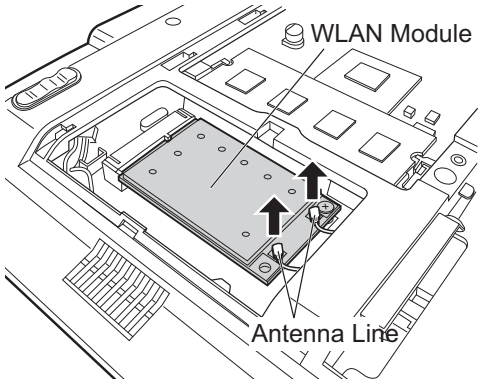
2 Remove the screw which locks the memory module cover.



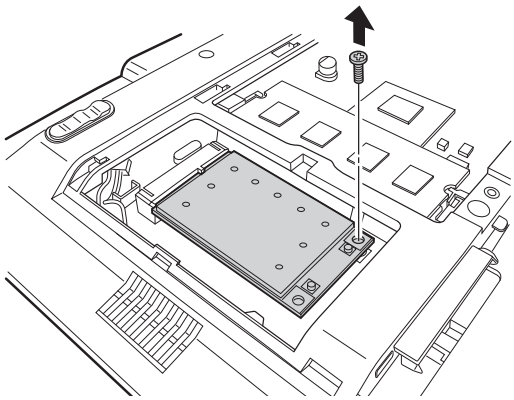
3 Slide the memory module cover forward（①）Raise and remove the cover（②）



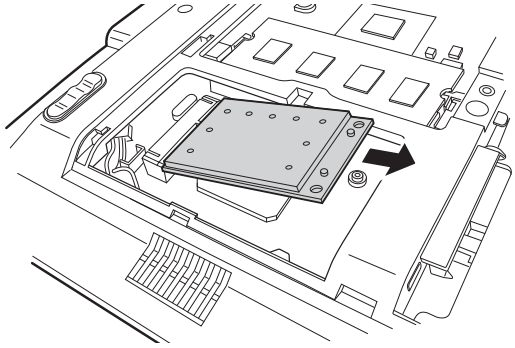
4 Remove the antenna line connected to the WLAN module.



5 Remove the screw which locks the WLAN module.



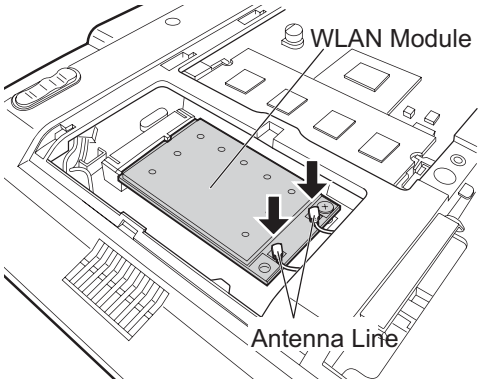
6 WLAN module is removed from the WLAN slot.



7 Install the new WLAN module in the WLAN slot.

8 Install the screw which is removed in step 5, WLAN module is locked.

9 Connect the antenna line to WLAN module.



Tip

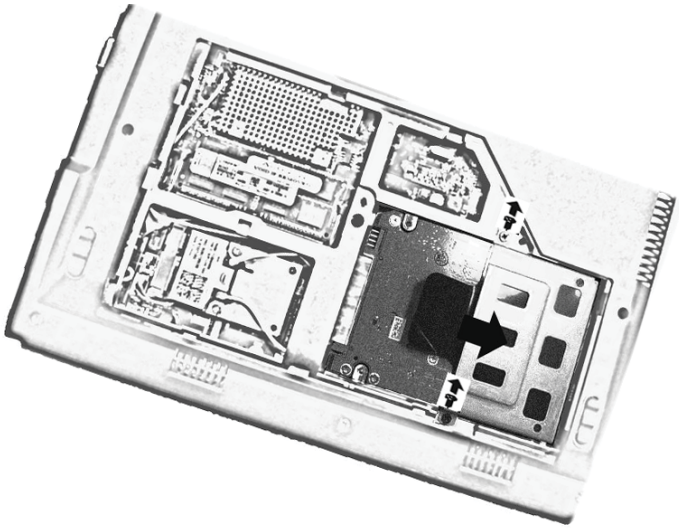
- There are usually two connectors to connect the antenna line in WLAN module. If there is only one antenna line, please connect it to the connector which “MAIN” is indicated in the side of the module.

10 Install the memory module cover and lock with the screw.

Hard Drive Module

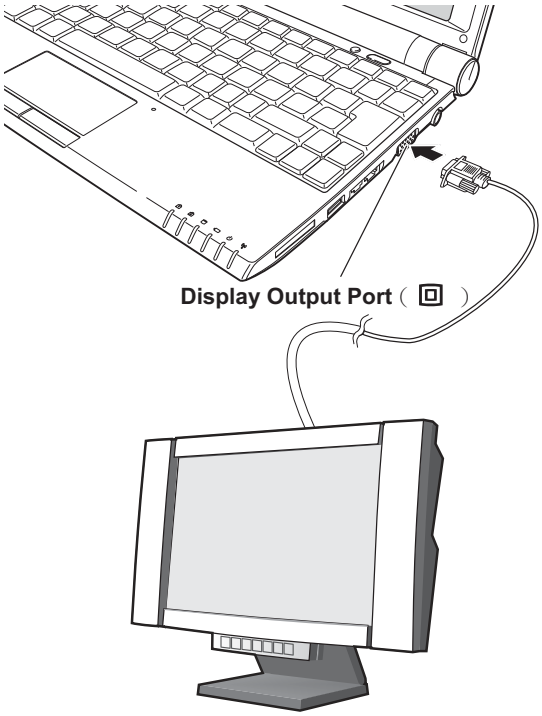
Hard drive loaded with Operating system and recovery solution, please contact your local reseller or customer service for Upgrade or hard drive replacement.

Note: To remove Hard drive remove two screw and hold slide the hard drive to the right to remove Hard drive module



Connecting External Display

1 The Display Output Port (⧈) on the notebook is connected with the cable of the external display.



Notice

- When external display is connected Click [Start] ,click [Control Panel] ,and then pick [Appearance and Themes] category, Click [Display] for the advanced setting.
- Simultaneous notebook LCD/external display is only supported in the notebook LCD panel's default resolution. The external display (monitor, LCD projector/panel) must be capable of displaying the same resolution as the notebook LCD display panel's default resolution.

Tip

- Press Fn+F3 to toggle between the notebook's LCD display and an external monitor in this sequence:

①notebook LCD only
②CRT(External Monitor) only
③LCD+CRT Clone